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Wanghong Yuan, Klara Nahrstadt
Publisher: ACM Press  Publisher: ACM Press  Publisher: ACM Press
Full text available: pdf(727.92.KB) Additional information: full citation, abstract, references, index terms
This article presents the day of
soft real-time CPU scheduler for multimedia applications running on a mobile device. EScheduler seeks to minimize the total energy consumed by the device while meeting multimedia timing traditional soft real-time. CPU is goal, EScheduler integrates dynamic voltage and time of the control time.
requirements. To achieve this goal, EScheduler integrates dynamic voltage scaling into the traditional soft real-time CPU scheduling: It decides at what CPU constitutions and the contract of
to execute applications in
Keywords: Power management, mobile computing, multimedia, soft real-time
I De elements of natural interesting
Jos Stam, Jerry Tessendorf
Publisher: ACM Press Full text available: The second of th
utormanon: (ut citation, abstract
This updated course on simulating natural phenomena will cover the latest research and production production, interactive simulating most of the elements of nature. The presenters will provide
techniques for simulating natural phenomena will cover the latest research and production production, interactive simulation, and research perspectives on the difficult task of photorealistic latest interactive graphics handled handled phenomena. The course offers a piece handled latest interactive graphics handled handled handled latest graphics graphics handled latest graphics handled latest graphics g
modeling, rendering, and animation, and research perspectives on the difficult task of photorealistic latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techniques and the latest physics-based
as and the latest physics-based
Applications and compliance: Virtual monotonic counters and count-limited objects using a TPM  Without a trusted OS  Luis F. G. Sarra-to-
without a trusted OS Luis F. G. Sarmenta, Marten van Diffu Gi
Luis F. G. Sarmenta, Marten van Dijk, Charles W. O'Donnell, Jonathan Rhodes, Srinivas Devadas  Proceedings of the first ACM workshop on Scalable trusted computing STC '06  Full text available: *** pdf(447.59 KB)
Full text available: pdf(447.59 KB) Additional Information: [tvll_citation.abstract, references. Index terms
A trusted monotonic according
A trusted monotonic counter is a valuable primitive that enables a wide variety of highly scalable offline and decentralized applications that would otherwise be prone to replay attacks, including paper, we show how one control trusted storage, and digital rights management (s. including
offline payment, e-wallets, virtual trusted storage, and digital rights management (DRM). In this untrusted machine with a Trusted Platform Module (TPM) or similar device, without scalars on an trusted OS
untrusted machine with a Trusted Platform Module (TPM) or similar device, without relying on a trusted OS
<b>Keywords</b> : certified execution, e-wallet memory integrity checking, key delegation, stored-value,
dusted storage integrity checking, key delegation, stored-value,
4 System-level neuron and the state of the s
System-level power optimization: techniques and tools  Luca Benini, Giovanni de Micheli
ACM Transactions on Design Automation of Electronic Systems (1997)
Publisher: ACM Press (TODAES), Volume 5

Full text available: pdf(385,22 KB)

ional Information; full citation, abstract references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and

MANTIS OS: an embedded multithreaded operating system for wireless micro sensor platforms Shah Bhatti, James Carlson, Hui Dai, Jing Deng, Jeff Rose, Anmol Sheth, Brian Shucker, Charles Gruenwald, Adam Torgerson, Richard Han

Mobile Networks and Applications, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers Full text available: pdf(1.27 MB)

Additional Information: full citation, abstract, references, index terms

The MANTIS MultimodAl system for NeTworks of In-situ wireless Sensors provides a new multithreaded cross-platform embedded operating system for wireless sensor networks. As sensor networks accommodate increasingly complex tasks such as compression/aggregation and signal processing, preemptive multithreading in the MANTIS sensor OS (MOS) enables micro sensor nodes to natively interleave complex tasks with time-sensitive tasks, thereby mitigating the bounded

Keywords: cross-platform, dynamic reprogramming, embedded operating system, lightweight, low power, multithreaded, sensor networks

Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04 Publisher: ACM Press

Full text available: pdf(17.07 MB)

Additional Information: full citation, abstract, citings

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq  $\dots$ 

Systems, platforms, and applications: MANTIS: system support for multimodAl NeTworks of insitu sensors

H. Abrach, S. Bhatti, J. Carlson, H. Dai, J. Rose, A. Sheth, B. Shucker, J. Deng, R. Han

Proceedings of the 2nd ACM international conference on Wireless sensor networks

Full text available: pdf(424\_53\_KB)

Additional Information: [tvll\_citation, abstract\_references, citings, index\_terms

The MANTIS MultimodAl system for NeTworks of In-situ wireless Sensors provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping of wireless sensor networks. The key design goals of MANTIS are ease of use, i.e. a small learning curve that encourages novice programmers to rapidly prototype novel sensor networking applications in software and hardware, as well as

Keywords: GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems,

Kernels: Vertigo: automatic performance-setting for Linux Krisztián Flautner, Trevor Mudge

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Additional Information: full citation, abstract, references

Combining high performance with low power consumption is becoming one of the primary objectives of processor designs. Instead of relying just on sleep mode for conserving power, an increasing number of processors take advantage of the fact that reducing the clock frequency and corresponding operating voltage of the CPU can yield quadratic decrease in energy use. However, performance reduction can only be beneficial if it is done transparently, without causing the software

Devirtualizable virtual machines enabling general, single-node, online maintenance

ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems



Review , ACM SIGPLAN Notices , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems

Full text available: pdf(174.01 KB)

Additional Information: full citation, abstract references, citings, index terms

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, mak-ing maintenance slow and often impractical. Second, clusterstyle maintenance does not work on single-node systems, despite the fact that their unavailability

Keywords: availability, online maintenance, planned downtime, virtual machines

Wireless & mobility: A time series-based approach for power management in mobile processors Xiaotao Liu, Prashant Shenoy, Weibo Gong

Proceedings of the 14th international workshop on Network and operating systems support for digital audio and video NOSSDAV '04

Publisher: ACM Press Full text available: pdf(101.45 KB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present a time series-based approach for managing power in mobile processors and disks that see multimedia workloads. Since multimedia applications impose soft real-time constraints, a key goal of our approach is to reduce energy consumption of multimedia applications without degrading performance. We present simple statistical techniques based on time series to dynamically compute the processor and I/O demands of multimedia applications and present techniques to dynamically va ...

Keywords: dynamic rotations per minute, dynamic voltage scaling, multimedia, power

Distributed operating systems



Andrew S. Tanenbaum, Robbert Van Renesse

ACM Computing Surveys (CSUR), Volume 17 Issue 4 Publisher: ACM Press

Full text available: pdf(5,49 MB)

Additional Information: [ull citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

Special session on reconfigurable computing: The happy marriage of architecture and application in next-generation reconfigurable systems Ingrid Verbauwhede, Patrick Schaumont

Proceedings of the 1st conference on Computing frontiers CF '04

Publisher: ACM Press

Full text available: pdf(398.28 KB)

Additional Information: full citation, abstract, references, index terms

New applications and standards are first conceived only for functional correctness and without concerns for the target architecture. The next challenge is to map them onto an architecture. Embedding such applications in a portable, low-energy context is the art of molding it onto an energy-efficient target architecture combined with an energy efficient execution. With a reconfigurable architecture, this task becomes a two-way process where the architecture adapts to

Keywords: embedded, real-time systems

Energy awareness: Energy consumption and conservation in mobile peer-to-peer systems

Proceedings of the 1st international workshop on Decentralized resource sharing in mobile computing and networking MobiShare '06

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

Today's mobile devices are growing in number and computational resources. Devices capable of storing gigabytes of digital content are becoming ubiquitous, making them an ideal platform for peer-to-peer content delivery and sharing. However, the always on communication patterns of P2P

networks is not a natural fit for energy-constrained mobile devices. In this paper, we perform a detailed study of energy consumption of a structured P2P overlay on a PDA device. Using actual

Keywords: DHTs, mobility, peer-to-peer, structured overlays

Security: SECA: security-enhanced communication architecture Joel Coburn, Srivaths Ravi, Anand Raghunathan, Srimat Chakradhar

Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05
Publisher: ACM Press

Full text available: pdf(396.53 KB)

Additional Information: full citation, abstract references, index terms

In this work, we propose and investigate the idea of enhancing a System-on-Chip (SoC) communication architecture (the fabric that integrates system components and carries the communication traffic between them) to facilitate higher security. We observe that a wide range of common security attacks are manifested as abnormalities in the system-level communication traffic. Therefore, the communication architecture, with its global system-level visibility, can be used to detect them. The communicati ...

Keywords: AMBA Bus, access control, architecture, attacks, bus, communication, digital rights management (DRM), intrusion detection, security, security-aware design, small embedded systems, system-on-chip (SoC)

Real-time volume graphics

Klaus Engel, Markus Hadwiger, Joe M. Kniss, Aaron E. Lefohn, Christof Rezk Salama, Daniel Weiskopf ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04 Publisher: ACM Press

Publisher. ....
Full text available:

Additional Information: full citation, abstract

The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering volume data in scientific visualization, the interest in applying these techniques for real-time rendering of atmospheric phenomena and participating media such as fire, smoke, and clouds is growing rapidly. This course covers both applications in scientific visualization, e.g., medical volume data, and real-

Managing battery lifetime with energy-aware adaptation

Jason Flinn, M. Satyanarayanan

ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 2

Publisher: ACM Press Full text available: pdf(1 61 MB)

Additional Information: tull citation, abstract, references, citings, index terms

We demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first describe a novel profiling-based approach for accurately measuring application and system energy consumption. We then show how applications can dynamically modify their behavior to conserve energy. We extend the Linux operating system to yield battery lifetimes of user-specified duration. By monitoring energy supply

Keywords: Power management, adaptation

Recovering device drivers

Michael M. Swift, Muthukaruppan Annamalai, Brian N. Bershad, Henry M. Levy ACM Transactions on Computer Systems (TOCS), Volume 24 Issue 4 Publisher: ACM Press

Full text available: pdf(365,93 KB)

Additional Information: full citation, abstract, references, index terms

This article presents a new mechanism that enables applications to run correctly when device drivers fail. Because device drivers are the principal failing component in most systems, reducing driverinduced failures greatly improves overall reliability. Earlier work has shown that an operating system can survive driver failures [Swift et al. 2005], but the applications that depend on them cannot. Thus, while operating system reliability was greatly improved, application reliability gen ...

Keywords: I/O, Recovery, device drivers

Kernel Korner: The Linux Keyboard

Andries E. Brouwer Linux Journal Publisher: Specialized Systems Consultants, Inc. Full text available: html(19.45 KB)

Mobile wireless network system simulation

Joel Short, Rajive Bagrodia, Leonard Kleinrock December 1995 **Wireless Networks**, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers Full text available: pdf(1.70 MB)

Additional Information: full citation, abstract, references, civings

This paper describes an advanced simulation environment which is used to examine, validate, and predict the performance of mobile wireless network systems. This simulation environment overcomes many of the limitations found with analytical models, experimentation, and other commercial network simulators available on the market today. We identify a set of components which make up mobile wireless systems and describe a set of flexible modules which can be used to model the various components ...

Pen computing: a technology overview and a vision

ACM SIGCHI Bulletin, Volume 27 Issue 3

Publisher: ACM Press

Additional Information: full citation, obstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

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L2	22	(compartment\$4 mode workstation)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:04
L3	4	(compartment\$4 mode workstation) and (mult\$4 same security same window)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:05
L4	10	(compartment\$4 mode workstation) and (mult\$4 same security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:06
L5	8	(compartment\$4 mode workstation) and (mult\$4 near9 security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:07
L6	309	((mult\$4 or multiple) near9 security) same window	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:13
L7	113	((mult\$4 or multiple) near9 security) near9 window	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:09
L8	61	((mult\$4 or multiple) near9 security) near9 window and mode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:09
L9	4	((mult\$4 or multiple) near9 security) near9 window and ((secure or prefered) near3 mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:10

L10	10	((mult\$4 or multiple) near9 security) same (window security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:13
L11 ·	8	((mult\$4 or multiple) near9 window near9 security) same (window security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:14
L12	111	((mult\$4 or multiple) near9 window near9 security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:14
L13	4	((mult\$4 or multiple) near9 window near9 security) and ((secure or prefered) near3 mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 07:21
L14	5	((mult\$4 or multiple) near9 window near9 security) and ((normal) near3 mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 08:20
L15	1475	user same select\$4 near9 ((multiple or different) near5 application)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ÖN	2007/01/10 08:21
L16	330	user near9 select\$4 near9 ((multiple) near5 application)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 08:21
L17	0	user near9 select\$4 near9 ((multiple) near5 application) same (secure mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 08:22
L18	2	user near9 select\$4 near9 ((multiple) near5 application) and (secure mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 09:46
L19	8594	(chang\$4 or switch\$4 or exit\$4 or leav\$4) near9 (normal mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 09:54

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L20	7	(chang\$4 or switch\$4 or exit\$4 or leav\$4) near9 (normal mode) near9 ((execut\$4 or run\$4) near4 application)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 10:15
L21	42	(kernel security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 10:15
L22	3	(kernel security) and (windows NT)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 10:16
L23	453	(kernel (mode or security)) and (windows NT)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 10:17
L24	189	(kernel (mode or security)) same (windows NT)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 11:41
L25	380	713/164.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ .	ON	2007/01/10 11:41
L26	. 4	713/164.ccls. and (windows security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 11:42
L27	22	713/164.ccls. and (windows near4 security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 13:10
L28	13	713/189.ccls. and (windows near4 security)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 11:46
L29	1121	713/189.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 11:46

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L30	1	(application and kernel and mode and ((CPU reset) or power) and key and instantiat\$4 and (authenticat\$4 or decrypt\$4)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 11:49
L31	15	713/164.ccls. and (windows near4 security) and mode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/01/10 13:11
S1	96	"security kernel"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/10 07:03
S2	<b>4</b> 9	"security kernel" and @ad < "19990327"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 12:03
S3		("security kernel" and @ad < "19990327") and ("security kernel" with processor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/18 10:18
S4		(("security kernel" and @ad < "19990327") and ("security kernel" with processor)) and ("security kernel" with authenticat\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/18 10:21
S5	5	("security kernel" with authenticat\$3) and @ad < "19990327"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/18 10:33
S6	15	"security kernel" with authenticat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/18 10:27
S7	5	(("security kernel" with authenticat\$3) and @ad < "19990327") and (authenticat\$3 with key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2004/10/20 14:30
S8	0	((("security kernel" with authenticat\$3) and @ad < "19990327") and (authenticat\$3 with key)) and (authenticat\$3 with ("private key" or "security key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/18 10:48

S9	673	processor with ("security key" or "private key" or "common key")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/19 13:12
S10	211	(processor with ("security key" or "private key" or "common key")) and @ad < "19990327"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/19 13:19
S12	0	"normal mode" with "preferred mode"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:30
S13	1617	(CPU or processor) with "normal mode"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:31
S14	1014	((CPU or processor) with "normal mode") and @ad < "19990327"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:32
S15	0	((((CPU or processor) with "normal mode") and @ad < "19990327") and ("power up" or "start up" or "boot up")) and (CPU with (inaccessible or "not accessible"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:35
S16	0	(((CPU or processor) with "normal mode") and @ad < "19990327") and (CPU with (inaccessible or "not accessible"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:35
S17	0	((((CPU or processor) with "normal mode") and @ad < "19990327") and ("power up" or "start up" or "boot up")) and 713/164.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:36
S18	152	(((CPU or processor) with "normal mode") and @ad < "19990327") and ("power up" or "start up" or "boot up")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 14:43

S19	18	((((CPU or processor) with "normal mode") and @ad < "19990327") and ("power up" or "start up" or "boot up")) and (encrypt\$3 or decrypt\$3 or cypher\$3 or scrambl\$3 or cryptography)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 17:01
S20	2	"5029206".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 17:04
S21	1	"5029206".pn. and (encryption with (proc\$4 or black))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/20 17:34
S22		("6240429" "66" "6253217" "66" "6266682" "66" "6269380" "66" "6324551" "66" "6330573" "66" "6370553" "66" "6775655" "66" "6772340" "66" "6775655" "66" "6182218" "65" "4264782" "65" "5745569" "65" "5784464" "65" "5898777" "65" "5978482" "65" "6002769" "65" "5978482" "65" "6002769" "65" "5523859" "65" "5878135" "65" "5991399" "65" "6016348" "65" "6991399" "65" "6098056" "65" "6108788" "65" "6282573" "65" "6289455" "65" "6292569" "65" "6385596" "65" "6385596" "65" "6385596" "65" "6389402" "65" "6408330" "65" "6427140" "65" "6799271" "65" "6741991" "65" "6799271" "65" "6741991" "65" "6799271" "65"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 11:38
S25	945	"6697944" "58" "6801999" "58" "5822432" "57" "5905800" "57" "5875249" "57" "6105137" "57").pn.  (((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad <	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2004/10/21 12:19
		"19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3	DERWENT; IBM_TDB			

S26	297	((((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad < "19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3) and ((compar\$3 or match) with hash)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 12:20
S27	277	(((((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad < "19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3) and ((compar\$3 or match) with hash)) and (asymmetric or "public key" or RSA)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 12:21
S28	207	(((((((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad < "19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3) and ((compar\$3 or match) with hash)) and (asymmetric or "public key" or RSA)) and (symmetric or "common key" or DES)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 12:21
S29	59	((((((((((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad < "19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3) and ((compar\$3 or match) with hash)) and (asymmetric or "public key" or RSA)) and (symmetric or "common key" or DES)) and ("copy right" or copyright)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 12:22

S30	16	((((((((((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad < "19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3) and ((compar\$3 or match) with hash)) and (asymmetric or "public key" or RSA)) and (symmetric or "common key" or DES)) and ("copy right" or copyright)) and ((user or consumer) with ((select\$3 or choos\$3 or option) with (data or ebook or "electronic book" or cd or song or application)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 13:39
S31	10	((((((((((((encrypt\$3 or encipher or cipher or scrambl\$3) with (data or text or application)) and @ad < "19990327") and ((encrypt\$3 or encipher or cipher or scrambl\$3) with (key\$1))) and authenticat\$3) and hash\$3) and ((compar\$3 or match) with hash)) and (asymmetric or "public key" or RSA)) and (symmetric or "common key" or DES)) and ("copy right" or copyright)) and ((user or consumer) with ((select\$3 or choos\$3 or option) with (data or ebook or "electronic book" or cd or song or application)))) and laptop	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/10/21 13:40
S32	2	"6577734".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 14:45
S33	4	("security kernel" or kernel or "operating system" or "os") with ((re\$1encrypt\$3 or re\$encipher or re\$1scrambl\$2) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:11
S34	0	("security kernel" or kernel or "operating system") with ((re\$1encrypt\$3 or re\$encipher or re\$1scrambl\$2) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 14:49
S35	3	("security kernel" or kernel or "operating system") same ((re\$1encrypt\$3 or re\$encipher or re\$1scrambl\$2) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:12

S36	703	("security kernel" or kernel or "operating system") same ((encrypt\$3 or encipher or scrambl\$2) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 14:51
S37	72	("security kernel" or kernel) with ((encrypt\$3 or encipher or scrambl\$2) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 14:52
S38	i	("security kernel" or kernel) with ((encrypting or enciphering or scrambling) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 14:53
S39	11	("security kernel" or kernel) same ((encrypting or enciphering or scrambling) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 14:56
S40	27	("security kernel" or kernel) same ((encrypted or enciphered or scrambled) near2 key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/06 15:04
S41	22	("security kernel" or kernel) same (key adj (encryption or enciphering or scrambling))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 06:30
S42	2	"5029206".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 06:30
S43	230	713/164.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 07:49
S45	6	713/164.ccls. and ((kernel near6 (encryption or cipher or scramble)) adj key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 07:52
S46	1	kernel same instantiat\$3 same ((application or data or program or text) near3 (encrypt\$3 or encipher\$3 or scrambl\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 09:32

S47	1	kernel same instantiat\$3 same ((application or data or program or text) same (encrypt\$3 or encipher\$3 or scrambl\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 09:32
S48	10	kernel and instantiat\$3 same ((application or data or program or text) same (encrypt\$3 or encipher\$3 or scrambl\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/07 09:32
S49	0	"security kernel" with ((cpu or processer) near2 reset) with ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:28
S50	0	"security kernel" same ((cpu or processer) near2 reset) same ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:28
S51	0	("security kernel" or kernel) same ((cpu or processer) near2 reset) same ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:29
S52	0	("security kernel" or kernel) and ((cpu or processer) near2 reset) same ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:29
S53	1	("security kernel" or kernel) and ((cpu or processer) near2 reset) and ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:30
S54	1	713/2.ccls. and ((cpu or processer) near2 reset) and ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:31
S55	0	713/1.ccls. and ((cpu or processer) near2 reset) and ((preferred or secure) adj mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 06:47
S56	2	"5530758".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/08 07:22

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S58	3	"6557104".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/09 12:53
S59	3	"6557104".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2005/04/11 11:01
S60	18	("secure mode" with (bank\$3 or "digital rights management" or DRM or financ\$))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/11 11:04
S61	95	("6829708" "6240429" "6253217" "6266682" "6269380" "6324551" "6330573" "6370553" "6397231" "6772340" "6775655" "6816596" "6876984" "6182218" "6424715" "6002772" "4264782" "5745569" "5784464" "5898777" "5978482" "6002769" "6038316" "6141754" "5523859" "5878135" "5933500" "5991399" "6016348" "6023509" "6098056" "6108788" "6199053" "6253193" "6282573" "6289455" "6292569" "6314521" "6363488" "6385596" "6385728" "6389402" "6408330" "6427140" "6516413" "6741991" "6799271" "6850252" "68688403" "6697944").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/11 16:35
S62	52	S61 and (bank\$3 or "digital rigits management" or DRM or rights or financ\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/11 16:39
S63	12	S61 and (bank\$3 or "digital rigits management" or DRM or rights or financ\$3) and (kernel or "secure mode" or "preferred mode")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/11 16:39
S64	0	key same ((secure or preferred or safe or tamper\$4) near2 mode) same ((content or movie or (digital data) or (electronic document) or (electronic book)) near3 distribution)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON .	2005/08/05 11:26

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S65	1222	(secure or prefer\$3) adj mode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:00
S66	11	(secure or prefer\$3) adj mode near6 (eras\$4 or delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:04
S67	11	(secure or prefer\$3) adj mode near9 (eras\$4 or delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:04
S68	23	(secure or prefer\$3) near2 mode near9 (eras\$4 or delet\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:05
S69	1	(secure or prefer\$3) near2 mode near9 (destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:07
S70	24	(secure or prefer\$3) near2 mode near9 (delet\$4 or eras\$4 or destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:07
S71	25	(secure or prefer\$3) near2 mode near13 (delet\$4 or eras\$4 or destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:07
S72	27	(secure or prefer\$3) near2 mode near20 (delet\$4 or eras\$4 or destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:26
S73	351	(secure or prefer\$3 or security or kernel) near2 (mode or state or proces\$5) near20 (delet\$4 or eras\$4 or destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:27
S74	267	(secure or prefer\$3 or security or kernel) near2 (mode or state or proces\$5) near9 (delet\$4 or eras\$4 or destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/10/07 14:27

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S75	127	(secure or prefer\$3 or security or kernel) near2 (mode or state) near9 (delet\$4 or eras\$4 or destroy\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/01/12 16:14
S76	2	"5537540".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/26 09:47
S78	137	((pre\$1boot\$4) or (boot\$3 near up) or (power\$3 near (up or on)) or (bios) or (basic input output system) or (re\$1set)) same (secure mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/26 09:50
S79	536	((pre\$1boot\$4) or (boot\$3 near up) or (power\$3 near (up or on)) or (bios) or (basic input output system) or (re\$1set)) same ((password or key) near2 (verif\$6 or authenticat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/26 13:43
S84	57	((pre\$1boot\$4) or (boot\$3 near up) or (power\$3 near (up or on)) or (bios) or (basic input output system) or (re\$1set)) same ((password or key) near2 (verif\$6 or authenticat\$4)) same (application)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/26 14:10
S87	40	authenticat\$4 near9 initializ\$4 near9 (application or software or firmware)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/26 14:13
S88	209	((switch\$4) near2 back) near7 ((secure or normal) mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/27 06:49
S89	7	((switch\$4) near2 back) near7 ((secure) mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/27 06:42
S90	0	((enter\$4) near2 back) near7 ((secure) mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/27 06:42

S91	62	(back) near7 ((secure) mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/27 06:47
S92	7	(re adj2 (enter\$4 or transmit\$4 or chang\$4 or vert\$4)) near7 ((secure) mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/27 06:48
S93	3	((enter\$4 or transmit\$4 or chang\$4 or vert\$4 or going) near2 back) near7 ((secure) mode)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/06/27 06:49

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